Cape Cod 208 Plan Implementation - Mel Cote (OEP) HOT

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Eastern Long Island Sound (LIS) Dredged Material Disposal Site Designation (DMMP) - Mel Cote (OEP) HOT

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Great Bay Estuary, NH - Jackie Leclair (OEP) HOT

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Date	Milestone	Status

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Per- and Polyfluoroalkyl Substances (PFAS) - Meghan Cassidy (OSRR) **HOT**

BACKGROUND: Region 1, along with EPA nationally, is working to address Per- and Polyfluoroalkyl Substances (PFAS) across New England. PFAS are a group of Contaminants of Emerging Concern (CEC). Like all CECs, there is currently incomplete technical information available related to PFAS.

PFAS are used in a variety of products including cookware coatings (i.e., Teflon), firefighting foams, textiles, building materials and numerous consumer products. Pefluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) have been detected in a number of public water supplies, private wells and at contaminated sites across New England.

Since 2016, Region 1 states New Hampshire (NH) and Vermont (VT) have been addressing widespread PFAS contamination in their states. In the early phases of these efforts, Region 1 provided significant support to NH and VT as their capacity was far exceeded.

PFAS have been detected at a number of National Priorities List (NPL) sites in the Region. The Region continues to evaluate the presence of PFAS at NPL sites, as appropriate.

STATUS OF WORK: Region 1 continues to work with NH and VT, albeit on a smaller scale, to identify areas of potential PFAS impact and sources of PFAS. The Region is also working with other Region 1 states in various capacities.

Ongoing work includes pre-remedial work focused on a number of potential PFAS sources. In addition, PFAS sampling is being performed at a number of National Priorities List (NPL) sites. Pursuant to current Office of Land and Emergency Management (OLEM) policy, the Region has consulted with HQ prior to each sampling effort at these NPL sites. The Region also continues to provide technical assistance, including sample collection, analytical support, etc.

to states on an as needed basis.

After developing the capacity in 2016, Region 1's regional laboratory continues to perform Method 537 analysis. Analytical support is provided for regional and state programs as needed. In limited circumstances, other EPA regions have utilized the regional lab for Method 537 analysis.
The Drinking Water Program and the regional lab are supporting VT with an investigation to better understand the fate and transport of PFOA in N. Bennington.

Several Region 1 states have reached out to various ORD organizations for potential support, including research, related to PFAS issues. Such issues include questions regarding "next generation" or short-chain replacement compounds and food chain impacts, to name a few. Region 1 is working with ORD to ensure that any such support is coordinated through the Region. In November 2017, the Mayor of Portsmouth, New Hampshire requested ORD research support. Portsmouth is working with the Air Force, Region 1 and NH to install treatment on drinking supply wells impacted by PFAS from the former Pease Air Force Base (a NPL site). ORD and the Region have determined that such research is not needed on this project at this time.

In late 2017, the Region formed an EPA/New England States PFAS Working Group. The primary purpose of the group is to share information and consider resource requests/needs. Monthly conference calls are held to facilitate discussions and identify potential issues for elevation, as needed.
The EPA Cross-Agency Coordinating Committee, a committee of senior level managers from across the agency is leading the effort to address PFAS-related issues. Region 1's Deb Szaro is a committee member.

SENSITIVE ISSUES: Limited toxicity information; additional EPA-approved analytical methods needed; enforcement limitations; resource implications; lack of remediation technologies; high level of interest from communities/media/elected officials.

Date	Milestone	Status
09/30/2018	In response to a request from NH DES to ORD, Region 1 is coordinating work between NHDES and ORD on a project aimed at identifying the possible presence of next generation PFAS compounds in the environment. The goal is to determine if these compounds are present in the environment as a result of ongoing air emissions from two operating manufacturing facilities. These next generation compounds are generally shorter-chain compounds that were developed to replace PFOA. Coordination includes bi-weekly update/planning calls.	In Progress restricted
11/01/2018	The Drinking Water program (Marcel Belaval) is providing technical assistance to VT in support of the VT Division of Geology and Mineral Resources' work on PFOA fate and transport in Bennington, VT. The technical team is conducting an aquifer characterization which includes assessing groundwater/surface water interactions and determining groundwater discharge zones along the Walloomsac River in N. Bennington. As part of this work, OEME has loaned VT the Region's borehole camera and has provided associated training for its use. The aquifer characterization is ongoing and the borehole camera loan has been extended through Fall 2018. EPA's borehole camera has allowed VT DEC to characterize water-bearing fractures in PFOA-contaminated wells throughout the study area, adding valuable information to the aquifer characterization project.	In Progress restricted

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